

Active Recombinant Human CYP1A1 Protein

Cat. No. CYP1A1-04H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CYP1A1 and human CYP-low reductase are coexpressed in Escherichia coli.
Species	Human
Source	E.coli
Description	This gene, CYP1A1, encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids.
Form	50 mM Tris-acetate (pH 7.6), 250 mM sucrose, 0.25 mM EDTA
Bio-activity	Specific P450 Content:100 pmol/mg protein; Cytochrome c Reductase Activity:103 nmol/min/mg protein; P450 Activity:7-ethoxycoumarin O-deethylase; Linear with time up to:12 min; Linear with P450 up to:5 pmol/ml; Vmax:11 pmol/min/pmol CYP; Km:3.8 μM
Notes	1. Unless otherwise stated, all assays are carried out at 37 centigrade in 100 mM potassium phosphate buffer (pH 7.4) containing 5 mM magnesium chloride and an NADPH generating system [5 mM glucose 6-phosphate, 1 mM NADP+, 1 U/ml glucose 6-phosphate dehydrogenase]; 2. Determined at 5 μM substrate, using a P450 concentration of 1 pmol/ml; 3. Determined at 5 μM substrate, using an

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incubation time of 5 min.

Storage Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.

Concentration 10 mg/ml

GENE INFORMATION

Gene Name CYP1A1

Official Symbol CYP1A1

Synonyms AHH; AHRR; CP11; CYP1; CYP1A1; P1-450; P450-C; P450DX

Gene ID 1543

mRNA Refseq NM_000499.5

Protein Refseq NP_000490.1

MIM 108330

UniProt ID P04798

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